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LANL B61 System FY 2014 Report January

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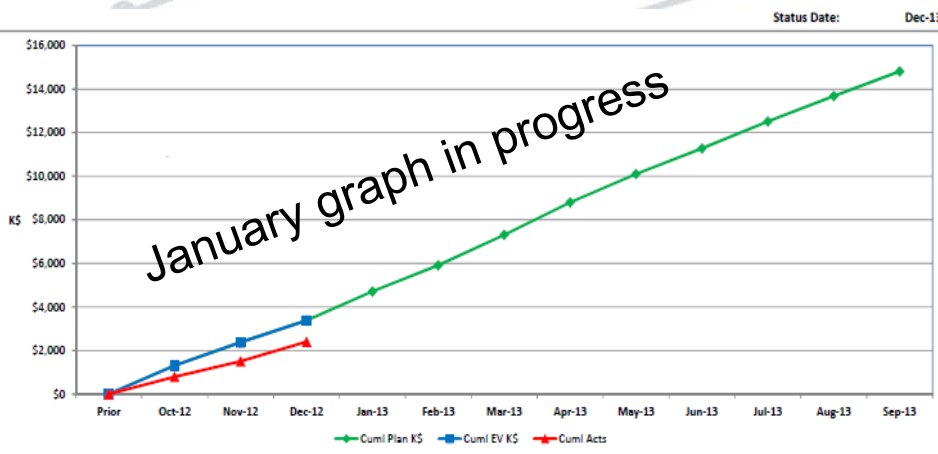
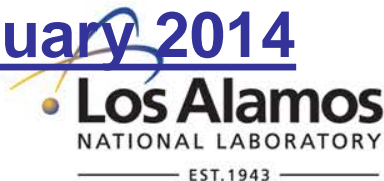
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LANL Stockpile System Program Status – January 2014

LANL B61 Stockpile System - January FY14



* Cumulative totals will be sent as an attached file to this report.

Schedule (Notable Deliverables - including look ahead)

IHE Material Characterization/Modeling Activities: Material model selection and development of parameters for the engineering baseline are in progress. Requirements continue to be refined as the baseline model matures.

- Design definitions for heavily confined and high-fidelity (Hi-Fi) abnormal thermal cook-off tests have been released. The heavily confined test is scheduled for summer of 2014, and the Hi-Fi test is scheduled for 1Q FY 2015; test parameters and plans are being worked. Hardware and diagnostics are currently being purchased and fabricated.
- Continued progress on 3D ratchet growth model. Binder will be added to the model next. Hardware and tests to evaluate model against heat pressed TATB will be examined next.
- Draft "Model Features in PBX 9502" had been sent for technical review.

MRT	Technical Performance (Milestone/Deliverable)	Plan
4812	AAR review; Updates to Revision 0: Initial Draft from LANL project personnel due to LANL Warhead Manager – in progress.	Jan-14
4996	JTAM activities & scheduled deliverables; Final Design Review (FDR)	Feb-14

	Issues /Concerns (Yellow or Red Milestones or other concerns not related to milestone)
G	None for January.

- Under CR, six FY 2013 scheduled onionskin tests at Pantex have been carried over into FY 2014. Per the December IWET, these tests are now funded, including the two onionskin tests that are scheduled in FY 2014.
- MS 4998: Under the CR, three of the four CSAs planned at Y-12 may not be funded. Per the December IWET, these are now funded.
- Weld 2 SFI (2013-23-B61-06) was opened. The path forward and opening letter are being drafted.
- Final reports for the previous closed SFIs (Material Reaction and CSA Breach) are being drafted.

Completed

Scope/cost/schedule satisfactory

Minor problem with scope/cost/schedule

Significant problem with scope/cost/schedule

B

G

Y

R

LANL Stockpile System Program Status – January 2014

G	L2 Milestone (Status) (cont.)
G	<p>4812 – Issue the Annual Assessment Report (AAR) and Director’s Annual Assessment letter for the B61. All activities are on track.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Prepare the AAR — LANL only. Initial Draft from LANL project personnel due to LANL Warhead Manager – in progress. <input checked="" type="checkbox"/> Prepare the Director’s Annual Assessment Letter — LANL only. <input checked="" type="checkbox"/> Submit required versions of the Weapon System Annual Assessment Report — SNL only. <input checked="" type="checkbox"/> Prepare/brief the Weapons System AAR at the SAGSAT review — LANL/SNL <input type="checkbox"/> Issue the Director’s Annual Assessment Letter in accordance with the Cycle 119 instructions, as published in January 2014 — SNL only.
G	<p>4814 – Identify and complete continuous activities necessary for supporting current/future assessments for the B61. All continuous activities are on track.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Provide nuclear explosive package (NEP) surveillance information for FY 2015 cycle work to SNL by October 31, 2013, for inclusion in Weapon Cycle Selection Letter. Rec’d Cycle 116 WETL Selections Letter for B61-7 (#0000317192) — LANL only. <input checked="" type="checkbox"/> Cycle Selection surveillance information (identifying requirements for all system and component level assessments) via BC document to PAs and NNSA by July 2013 for all cycles starting in FY 2015. <input checked="" type="checkbox"/> Continue development of primary and secondary baseline models — LANL Physics. <input checked="" type="checkbox"/> Document progress associated with IHE modeling efforts — LANL only. Received PBX 9502 Cyclic Test Analysis presentation and draft report justifying the features to be modeled in 9502. <input checked="" type="checkbox"/> Support NNSA and the DoD with field implementation new gas fill for the B61-11 and B61-3. All LANL documentation is in place and modifications are being made as necessary.

☐ *LANL-PA/SNL reports their activities separately.

LANL Stockpile System Program Status – January 2014



G	L2 Milestone (Status)
G	<p>4996 – Complete all B61 JTAM activities IAW the signed Project Plan All JTAM activities are on track. <i>(Conduct all required JTAM activities IAW signed Project Plan and complete activities and deliverables each quarter IAW JTAM project plan)</i></p> <p><input checked="" type="checkbox"/> Complete 100% of scheduled deliverables each quarter in accordance with JTAM project plan (PR2A9113)</p> <ul style="list-style-type: none"> – DJTA-2 test and radiography to be performed 2nd QTR FY 2014 (April FY14) – 5D Trainer (January–March) All mods to build process and work-on procedures have begun and are into the 3rd week. (Completion is expected in March) – FDR (February FY14)
G	<p>4997 – Complete B61 Weapon Maintenance Activities IAW Directive Documents All maintenance activities are on track. <i>(Complete scheduled maintenance activities IAW PCD and LLCE PCD)</i></p> <p><input type="checkbox"/> LANL-PA to complete scheduled LLC deliverables per directive documents and provide UR responses as required.</p> <ul style="list-style-type: none"> – URs are responded to on an ongoing basis. LANL observed a 1B repair operation at the DoD facility.
G	<p>4998 – Complete B61 Weapon Surveillance activities IAW Directive Documents All weapon surveillance activities are on track. <i>(Complete scheduled activities each quarter, or by milestone date, IAW the IWET Plan PR2A2570)</i></p> <p><input type="checkbox"/> Complete 100% of all surveillance activities IAW directive document and KCP schedule. Provide justification and recovery plan if behind schedule — *LANL PA</p> <p><input type="checkbox"/> LANL PA to deliver 100% of required SMU's for JTAs IAW the directive document — *LANL PA</p> <ul style="list-style-type: none"> – LANL delivered builds 11 and 12 to Pantex and they have now been completed. Build 13 is scheduled for Q3 2014.
G	<p>5000 – Complete and submit a monthly report to NA-122.3 detailing the programmatic status of the B61 Program On track. <i>(Monthly reports are completed and submitted to NA-122.3 each month of the current Fiscal Year)</i></p> <p><input checked="" type="checkbox"/> All sites must submit a monthly status report to NA-122.3 no later than the close of business of Friday of the first full week of each month — On track</p> <p><input checked="" type="checkbox"/> The report shall be in the form of PowerPoint slides with the following information: Scope, Schedule, Cost (BA, Spend Plan, Expenditures to Date, Cost Plus Commitments), Program Issues and Concerns — Published monthly status reports during the 1st quarter in accordance with the directed guidance.</p>

☐ *LANL-PA/SNL report their activities separately.